

# Morbidity and Mortality

Weekly  
Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE

Prepared by the

COMMUNICABLE DISEASE CENTER

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON  
DEATHS IN SELECTED CITIES FOR WEEK ENDED OCTOBER 10, 1964

## EPIDEMIOLOGIC NOTES

### Meningococcal Infections

There were 43 meningococcal infections reported during the 41st week, ending October 10, as compared to 29 for the 41st week in 1963. The cumulative number of reported infections during the first 41 weeks of 1964 is 2092, whereas 1871 were reported for the same period last year.

Certain bases of the Armed Forces have been experiencing outbreaks of meningococcal meningitis among new recruits. One of these, Fort Ord, California, has reported 82 cases with 11 deaths among service personnel, and 7 cases with 1 death among dependents since January 1, 1964.

The State of California reports 409 cases of

meningococcal infections, including the Fort Ord cases, between January 1 and September 30, 1964. These cases have been scattered throughout the State. This is a slight increase over the number of cases reported for the same period last year.

There has been some small increase noted in the percentage of sulfonamide-resistant strains in California. The majority of strains have been identified as group B, and the remaining strains were found to be group C.

(Reported by Dr. Henry A. Renteln, Bureau of Communicable Diseases, California State Department of Public Health.)

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

Disease	41st Week Ended		Median 1959 - 1963	Cumulative, First 41 Weeks		
	October 10, 1964	October 12, 1963		1964	1963	Median 1959 - 1963
Aseptic meningitis .....	68	59	---	1,630	1,445	---
Brucellosis .....	8	9	9	335	295	481
Diphtheria .....	9	9	17	202	203	437
Encephalitis, primary infectious ..	134	23	---	2,561	1,263	---
Encephalitis, post-infectious .....	4		---	705		---
Hepatitis, infectious including serum hepatitis .....	650	798	798	30,414	34,317	34,317
Measles .....	800	857	913	436,944	361,744	390,194
Meningococcal infections .....	43	29	38	2,135	1,900	1,730
Poliomyelitis, Total .....	2	24	35	93	347	1,027
Paralytic .....	2	20	26	75	296	661
Nonparalytic .....	-	3	---	11	35	---
Unspecified .....	-	1	---	7	16	---
Streptococcal Sore Throat and Scarlet fever .....	5,153	4,610	---	315,224	268,524	---
Tetanus .....	6	15	---	220	219	---
Tularemia .....	2	4	---	263	226	---
Typhoid fever .....	17	20	20	345	431	638
Rabies in Animals .....	63	69	69	3,647	3,024	3,024

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

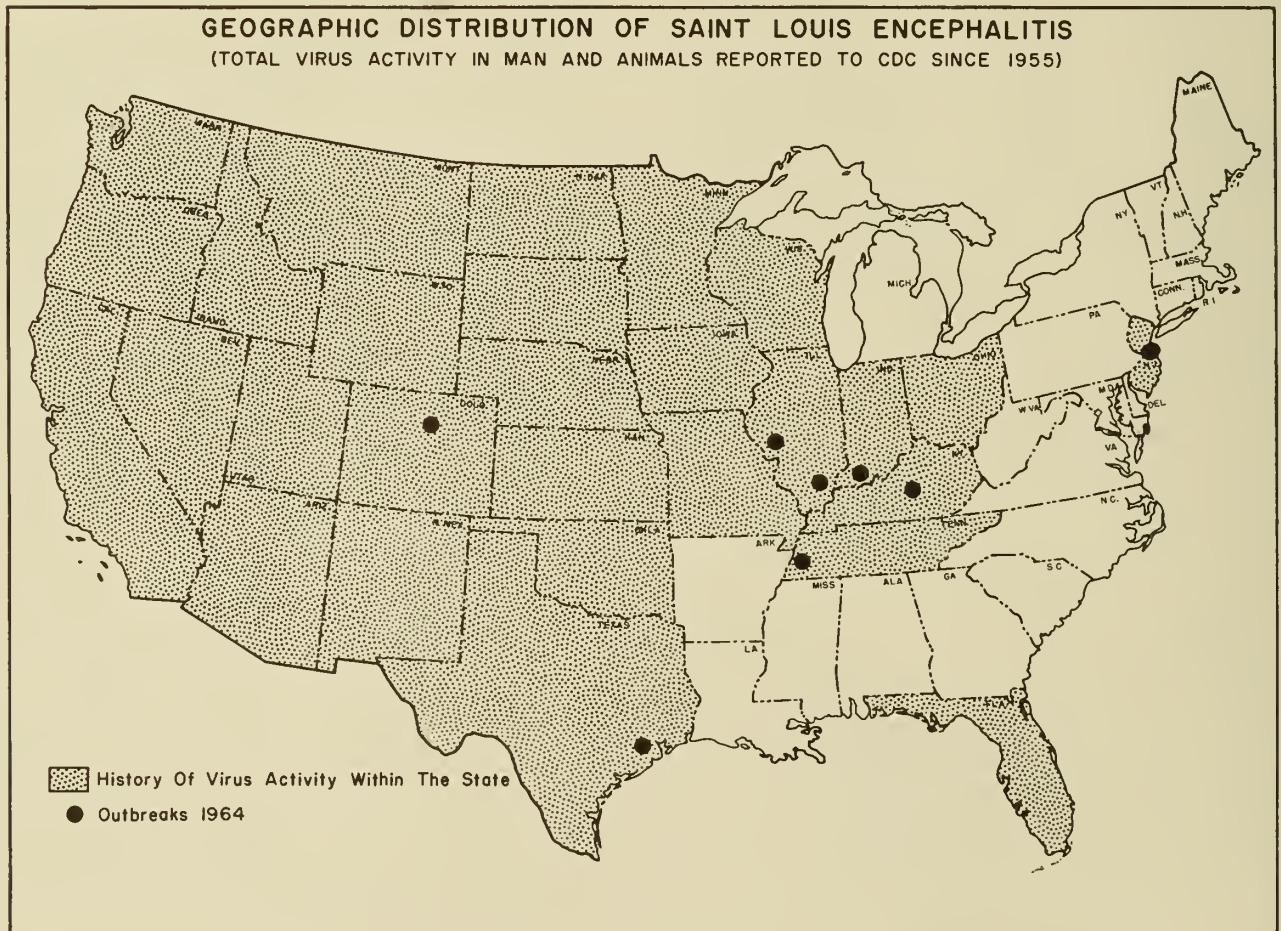
	Cum.		Cum.
Anthrax:	3	Psittacosis: Calif - 1	36
Botulism:	11	Rabies in Man:	1
Leptospirosis:	36	Smallpox:	-
Malaria: Penn - 1	76	Typhus-	
Plague:	-	Murine: Tex - 1	22
		Rky Mt. Spotted: Md-1, Penn-1, Ala-1, Ga-2	211

## ENCEPHALITIS SURVEILLANCE SUMMARY

A total of 938 human cases of suspected arthropod-borne encephalitis have been reported to the Encephalitis Surveillance Unit thus far in 1964. Since final reporting of arthropod-borne encephalitis is on an annual basis, this represents a preliminary total based primarily on epidemic investigations and several special reports. Since the establishment of the Encephalitis Surveillance Unit in 1955, the previous high total of arthropod-borne encephalitis for any one year was 625 cases, reported in 1956. Six discrete outbreaks of St. Louis Encephalitis and two mixed epidemics of Western Equine and St.

Louis Encephalitis have occurred in the United States during 1964. The locations of the 1964 SLE epidemics as well as all States where SLE virus activity has been noted previously are shown on the map below. The current outbreak in New Jersey is of particular interest in that it represents the first time SLE activity has been noted in that State.

Reports from States where outbreaks of encephalitis or arthropod-borne virus activity of unusual interest have been noted are summarized in this issue.



## STATE REPORTS

## New Jersey

The New Jersey State Department of Health has reported the occurrence of 80 cases, including 6 deaths, of suspected encephalitis, which have occurred since early August. As shown in the epidemic curve below, a sharp increase in incidence occurred during early September reaching a peak during the weeks ended September 20 and 27 when 20 and 21 cases respectively occurred. All cases reside in either Camden or Burlington Counties, most in close proximity to the Delaware River.

Of these, 51 have thus far shown serologic evidence of St. Louis Encephalitis infection. The age and sex distribution of the cases, presented in the following table, shows that the majority of cases have occurred among females over the age of 40.

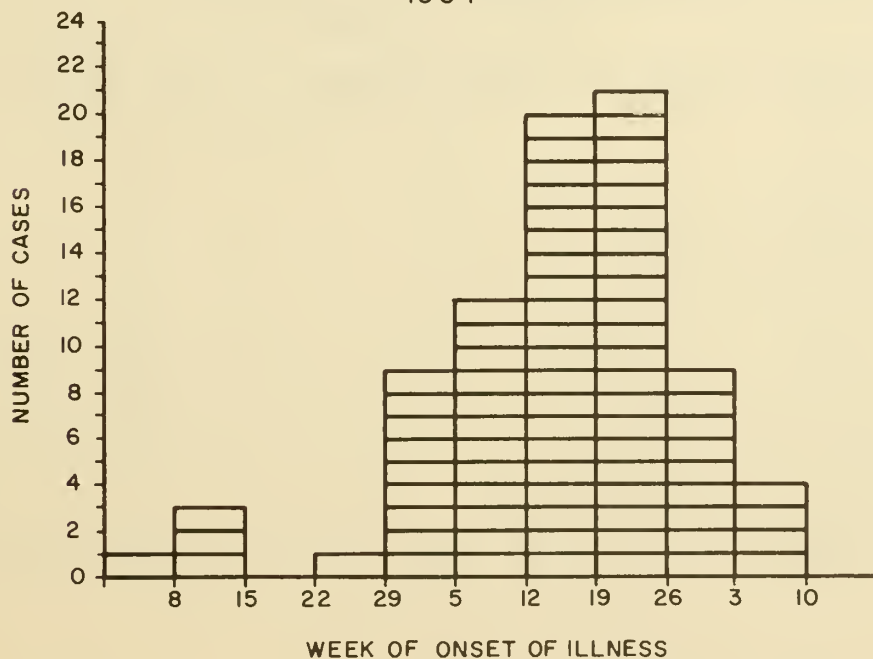
(Reported by W. J. Dougherty, M. D., Director, Division of Preventive Diseases, New Jersey State Department of Health.)

REPORTED ENCEPHALITIS CASES BY AGE AND SEX  
NEW JERSEY, 1964

AGE	MALE	FEMALE	TOTAL
0-9	1	0	1
10-19	3	0	3
20-29	2	4	6
30-39	5	4	9
40-49	2	16	18
50-59	4	10	14
60-69	3	13	16
70-79	5	5	10
80-89	0	3	3
TOTAL	25	55	80

REPORTED CASES OF ENCEPHALITIS  
BURLINGTON AND CAMDEN COUNTIES, NEW JERSEY

1964



## Texas

**Hale County:** Sixty-eight cases of suspected encephalitis have been reported thus far from Hale County, mid-June 1964. An additional 8 cases have occurred in immediately surrounding counties. More than 75 percent of the cases had onsets of illness between August 8 and September 5. In Hale County, the overall attack rate was 185 per 100,000, with higher attack rates noted in the younger age groups. Five deaths, all serologically confirmed as WEE have occurred, all in children 2 years of age or less. WEE virus has been recovered from both brain and cerebrospinal fluid from one fatal case. There

have been 20 cases serologically confirmed as WEE and 4 confirmed SLE cases. Sera from 14 of the cases were negative for both SLE and WEE.

Both the State Laboratory and the CDC Disease Ecology Section, Technology Branch, Greeley, Colorado have recovered WEE virus from mosquito pools of *Culex tarsalis* collected in Hale County.

(Reported by Dr. Van C. Tipton, Director, Communicable Disease Division, Texas State Department of Health and a team from the Communicable Disease Center.)

**Harris County (Houston):** Through October 10, 1964 a total of 711 suspected cases of encephalitis, including 33 deaths, have been reported from the Houston metropolitan area. The epidemic appears to be essentially terminated with only 10 cases reported with onsets of illness since September 19. The age specific attack rates for the 227 cases with serologic evidence of recent SLE infection is shown in the table below. The lowest rate, 8.5, is found in the 0-9 year age group. There is a relatively uniform rate between the ages of 10 and 49 followed by a progressive rise with advancing age over 50. Thirty-one of the 33 deaths have occurred in individuals over 50 years

of age. Serologic study has been performed on 547 cases thus far. Of these, 225 are classified as presumptive or confirmed SLE, 49 are negative and 273 are inconclusive, thus far.

SLE virus has been recovered from 10 mosquito pools of *Culex quinquefasciatus* and from the blood of 2 wild birds (1 bluejay; 1 mockingbird).

(Reported by Dr. Charles A. Pigford, Houston City-County Health Officer, and Dr. Van C. Tipton, Director, Communicable Disease Division, Texas State Department of Health and a team from the Communicable Disease Center.)

**AGE SPECIFIC ATTACK RATES FOR CONFIRMED AND  
PRESUMPTIVE CASES OF ST. LOUIS ENCEPHALITIS**

Harris County, Texas, 1964

AGE	CASES	POPULATION (1000 s)	RATE / 100,000
0-9	26	305	8.5
10-19	24	201	11.9
20-29	26	168	15.5
30-39	29	198	14.6
40-49	23	157	14.6
50-59	25	113	22.1
60-69	36	66	54.5
70-79	24	30	80.0
80+	14	9	155.6
<b>TOTAL</b>	<b>227</b>	<b>1244</b>	<b>18.2</b>



### Pennsylvania

Two reported cases of encephalitis, one serologically confirmed to be SLE have recently occurred in Bucks County. Both cases reside directly across the Delaware River from the epidemic area in New Jersey.

*(Reported by W. D. Schrack, Jr., M. D., Director, Division of Communicable Disease Control, Pennsylvania Department of Health.)*

### Illinois

Two outbreaks of St. Louis Encephalitis have been reported from southern Illinois. In addition, a single case of serologically confirmed Western Equine Encephalitis has occurred in central Illinois.

1) Eleven cases of confirmed SLE, including 2 deaths have been reported from McLeansboro. The dates of onset ranged from July 18 to September 3. Nine of the 11 cases occurred in persons over age 60. Dr. Robert Kokernot, Director of the Zoonoses Research Center of the University of Illinois reports that 31 of the first 50 pools of *Culex pipiens* studied to date have yielded SLE virus. SLE virus has also been recovered from the blood of 3 wild birds (2 sparrows; 1 catbird).

2) A total of 11 serologically confirmed cases of SLE including one death, have been reported from the Edwardsville-Alton area (northeast of St. Louis). The onset dates ranged between August 22 to September 24.

3) An isolated case of serologically confirmed WEE occurred in a 9 year old male from Urbana, Illinois who became ill on September 3.

*(Reported by Dr. Norman J. Rose, Chief, Bureau of Epidemiology, Illinois Department of Public Health.)*

### Florida

Four serologically confirmed cases of Eastern Equine Encephalitis have been reported with onsets since June 1, 1964. The cases occurred in 4 widely scattered counties in the central and northern areas of the State. The ages of the cases were 5, 6, 17, and 38 years; 2 deaths occurred. The most recent case became ill on July 22.

More than 80 cases of EEE in horses have been reported. The peak incidence occurred during June and

July. Serologic or virologic confirmation has thus far been made in 15 cases. EEE virus has been recovered from pools of mosquitoes collected in 2 areas of the State where human cases occurred.

*(Reported by Dr. Charlton Prather, State Epidemiologist, Florida State Board of Health.)*

### Colorado

A total of 40 cases of suspected encephalitis including 2 deaths has been reported from Colorado. The onset dates range from July 20 through September 18. Though scattered cases have occurred in several areas of the State, small discrete outbreaks have occurred in Adams County (Suburban Denver), La Junta and the Fort Collins area. Available data suggests no predilection for any age group. Confirmatory or presumptive serologic evidence of Western Equine Encephalitis has been obtained in 12 cases. Five cases show confirmatory or presumptive serologic evidence of St. Louis Encephalitis.

Western Equine virus was isolated from 7 of 21 pools of *Culex tarsalis* mosquitoes collected in Weld County, Colorado between August 3 and September 2. A number of suspected cases among horses have occurred during 1964. Of fourteen paired horse sera studied thus far, 9 showed diagnostic titer rises to WEE.

*(Reported by Dr., C. S. Mollohan, Chief, Division of Epidemiology, Colorado State Department of Public Health and a team from the Communicable Disease Center Disease Ecology Section, Technology Branch, Greeley, Colorado.)*

### Tennessee

Four cases of suspected encephalitis, including one death, have been reported from Memphis. The dates of onset were between August 20 to September 21. All occurred among elderly Negroes living in one sector of the city. Thus far, one case has been serologically confirmed as SLE.

SLE virus has been recovered from 2 mosquito pools of *Culex quinquefasciatus-pipiens* collected in Memphis during the period September 8 through 11.

*(Reported by Dr. Cecil B. Tucker, Director, Division of Preventable Diseases, Tennessee Department of Public Health.)*

## Indiana

A total of 19 cases of suspected encephalitis including 2 deaths have been reported from southern Indiana. Fourteen of the cases occurred in Vanderburgh County (Evansville) and 5 cases were from adjacent counties (Warrick, Gibson, and Posey). The onset dates of the cases ranged from August 21 through September 30. A peak occurred during the first half of September. Most of the cases (including both deaths) have occurred in persons above the age of 40. Thus far, 8 cases have been serologically confirmed as SLE. Further laboratory studies are in progress.

(Reported by Dr. A. L. Marshall, Jr., Director, Division of Communicable Disease Control, Indiana State Board of Health.)

## Kentucky

Thirty-two cases of suspected encephalitis, including one death, were reported in Boyle County (Danville) during August and September. A peak incidence occurred in early September. The most recent case became ill on September 22. To date, sera from 13 cases show presumptive evidence of recent SLE infection. SLE virus has been recovered from one mosquito pool of *Culex pipiens*. An additional 10 cases of suspected encephalitis, including one with presumptive serologic evidence of SLE, have been reported from adjacent counties.

(Reported by Dr. William McBeath, Director, Preventive Medicine and Epidemiology and Mr. Clifford Todd, Epidemiologist, Kentucky State Department of Health.)

## MEASLES - Bonin Islands

An epidemic of measles afflicted 117 of the 203 residents of one of the Bonin (Ogasawara) Islands in the Northern Pacific during June and July 1963. The index case was a 16-year-old girl who had returned from Guam, where she attended school, and where she had been exposed to measles. Within 14 days following the appearance of her rash, secondary cases occurred. No deaths were reported in the epidemic. The only complication occurred in a 16-year-old girl who exhibited bizarre behavior for the 2 weeks after her illness with measles.

The distribution of cases according to age groups is shown in the following table.

This was the first measles epidemic in at least 18 in this community.

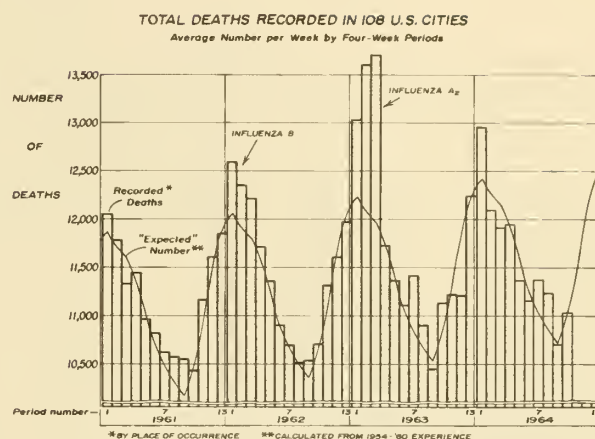
(Abstracted from report in U.S. Navy Medical News Letter, Vol. 43, No. 7, April 3, 1964 by Dr. D. A. Passick; and Captain Jack W. Millar, Director, Preventive Medicine Provision, Department of the Navy, Bureau of Medical & Surgery, Washington, D.C.)

Age Group	Total Pop. in Age Group	No. Cases	Attack Rate	% Total Cases	Cumulative %
0-4	22	30	91	17	17
5-9	29	25	86	21	38
10-14	36	35	97	30	68
15-19	26	25	96	21	89
20-24	10	6	60	5	94
25-29	6	2	33	2	96
30-49	47	3	6	3	99
50±>	27	1	4	1	100
TOTAL	203	117	58%	100%	

## TOTAL DEATHS REPORTED IN 108 CITIES

The weekly average number of total deaths in 108 cities for the four-week period ending October 10 was 11,038 as compared with an expected weekly average of 11,020.

	Week Ending				4 Week Total	Weekly Average
	9/19	9/26	10/3	10/10		
Observed	11,164	11,051	10,835	11,102	44,152	11,038
Expected	10,875	10,964	11,065	11,177	44,081	11,020
Excess	289	87	-230	-75	71	18



(See Table Page 371)

## INTERNATIONAL NOTES – QUARANTINE MEASURES

*Immunization Information for International Travel*

1963-64 Edition

Public Health Service Publication No. 384

## SECTION 5

## Senegal, page 31, Insert:

Under smallpox add "Six months of age and over."

## Spanish Guinea, page 34

Delete all information related to yellow fever.

## Tunisia, page 35

Under smallpox delete – "and from Italy."

## ASIA

Sabah, page 53, Insert the country and add the following:

Smallpox vaccination is required for all arrivals from infected areas.

Cholera vaccination is required for all arrivals from infected areas, 1 year of age and over.

Yellow fever vaccination is required for all arrivals from infected areas by air, 1 year of age and over.

## Syria, page 54

Delete all information related to yellow fever.

## Union of Soviet Socialist Republics, page 55 and 62

Delete previous information under smallpox and insert: Smallpox vaccination is required for all arrivals except China (mainland), North Korea, Mongolian People's Republic and countries in North America, Europe and Oceania.

Under cholera delete previous information and insert: A certificate is required from arrivals from infected areas, 1 year of age and over.

## EUROPE

## Albania, page 56

Delete previous information under smallpox and insert:

Smallpox vaccination is required for all arrivals except China (mainland), North Korea, Mongolian People's Republic, North Vietnam, countries in Europe, North America and Oceania. This exemption is extended to travelers who have been resident for more than 14 days in these countries immediately before arrival in Albania.

(Continued on page 372)

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
OCTOBER 10, 1964 AND OCTOBER 12, 1963 (41ST WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
			Primary	Post-Inf.								
	1964	1963	1964	1964	1964	1963	Cumulative		1964	1963	Cumulative	
							1964	1963			1964	1963
UNITED STATES...	68	59	134	4	2	24	93	347	2	20	75	296
NEW ENGLAND.....	3	2	-	-	-	1	2	6	-	1	2	6
Maine.....	-	-	-	-	-	-	-	2	-	-	-	2
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	1	-	-	-	1
Massachusetts.....	1	2	-	-	-	1	-	3	-	1	-	3
Rhode Island.....	2	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	2	-	-	-	2	-
MIDDLE ATLANTIC.....	11	4	86	1	-	8	13	110	-	7	12	88
New York City.....	2	-	3	-	-	-	1	-	-	-	1	-
New York, Up-State.	4	4	-	-	-	-	10	8	-	-	9	5
New Jersey.....	3	-	78	-	-	-	2	1	-	-	2	1
Pennsylvania.....	2	-	5	1	-	8	-	101	-	7	-	82
EAST NORTH CENTRAL...	11	8	13	1	-	1	18	53	-	1	13	43
Ohio.....	4	1	3	-	-	-	2	8	-	-	2	4
Indiana.....	1	-	4	-	-	-	6	4	-	-	3	3
Illinois.....	4	3	5	1	-	1	5	16	-	1	5	15
Michigan.....	1	4	-	-	-	-	3	19	-	-	2	19
Wisconsin.....	1	-	1	-	-	-	2	6	-	-	1	2
WEST NORTH CENTRAL...	9	3	9	-	-	-	9	6	-	-	7	5
Minnesota.....	1	3	-	-	-	-	3	4	-	-	2	4
Iowa.....	-	-	3	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	2	-	-	-	4	-	-	-	3	-
North Dakota.....	-	-	-	-	-	-	1	1	-	-	1	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	1	-	-	-	-	1	-	-	-	1
Kansas.....	8	-	3	-	-	-	1	-	-	-	1	-
SOUTH ATLANTIC.....	3	1	7	-	1	13	25	59	1	10	20	51
Delaware.....	-	-	-	-	-	-	-	1	-	-	-	1
Maryland.....	-	-	-	-	-	1	1	1	-	1	1	1
Dist. of Columbia..	1	-	-	-	-	1	-	1	-	-	-	-
Virginia.....	-	1	1	-	-	7	-	15	-	5	-	10
West Virginia.....	1	-	2	-	-	-	1	3	-	-	1	3
North Carolina.....	-	-	-	-	-	-	10	3	-	-	6	3
South Carolina.....	-	-	-	-	1	-	3	6	1	-	3	5
Georgia.....	-	-	-	-	-	2	1	19	-	2	1	18
Florida.....	1	-	4	-	-	2	9	10	-	2	8	10
EAST SOUTH CENTRAL...	3	8	-	-	-	1	6	65	-	1	5	60
Kentucky.....	-	6	-	-	-	-	-	-	-	-	-	-
Tennessee.....	-	1	-	-	-	-	3	10	-	-	2	9
Alabama.....	2	1	-	-	-	1	2	48	-	1	2	44
Mississippi.....	1	-	-	-	-	-	1	7	-	-	1	7
WEST SOUTH CENTRAL...	6	3	1	-	-	-	9	23	-	-	8	22
Arkansas.....	-	-	1	-	-	-	-	4	-	-	-	3
Louisiana.....	1	-	-	-	-	-	-	13	-	-	-	13
Oklahoma.....	2	-	-	-	-	-	2	-	-	-	2	-
Texas.....	3	3	-	-	-	-	7	6	-	-	6	6
MOUNTAIN.....	-	8	11	-	1	-	8	5	1	-	5	4
Montana.....	-	-	-	-	-	-	1	-	-	-	1	-
Idaho.....	-	-	-	-	1	-	1	1	1	-	1	1
Wyoming.....	-	-	1	-	-	-	2	-	-	-	2	-
Colorado.....	-	6	9	-	-	-	1	1	-	-	1	1
New Mexico.....	-	-	-	-	-	-	3	1	-	-	-	-
Arizona.....	-	-	1	-	-	-	-	2	-	-	-	2
Utah.....	-	2	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	22	22	7	2	-	-	3	20	-	-	3	17
Washington.....	1	2	-	-	-	-	-	2	-	-	-	2
Oregon.....	-	-	-	-	-	-	1	2	-	-	1	1
California.....	21	20	7	2	-	-	2	16	-	-	2	14
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	5	-	-	-	4



Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
OCTOBER 10, 1964 AND OCTOBER 12, 1963 (41ST WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
	1964	Cum.	1964	Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative		1964	Cum.
		1964		1964	1964	1964	1964	1964	1964	1963		1964
UNITED STATES...	8	335	9	202	650	348	256	46	30,414	34,317	17	345
NEW ENGLAND.....	-	2	-	44	55	27	24	4	2,789	3,774	-	14
Maine.....	-	-	-	39	13	10	3	-	881	1,698	-	-
New Hampshire.....	-	-	-	-	5	2	3	-	217	416	-	-
Vermont.....	-	-	-	-	4	1	-	3	346	82	-	-
Massachusetts.....	-	2	-	5	23	9	13	1	622	1,016	-	6
Rhode Island.....	-	-	-	-	-	-	-	-	153	89	-	6
Connecticut.....	-	-	-	-	10	5	5	-	570	473	-	2
MIDDLE ATLANTIC.....	-	5	1	8	139	71	68	-	6,741	6,819	2	57
New York City.....	-	-	1	4	18	6	12	-	1,029	1,060	2	29
New York, Up-State.....	-	2	-	-	64	38	26	-	2,936	2,940	-	10
New Jersey.....	-	-	-	2	23	9	14	-	1,151	1,014	-	1
Pennsylvania.....	-	3	-	2	34	18	16	-	1,625	1,805	-	17
EAST NORTH CENTRAL...	3	48	-	8	119	69	46	4	4,785	5,517	4	77
Ohio.....	2	5	-	-	25	11	11	3	1,259	1,529	-	19
Indiana.....	-	1	-	1	4	1	3	-	412	501	2	23
Illinois.....	1	27	-	6	41	29	11	1	900	1,167	1	22
Michigan.....	-	6	-	1	37	22	15	-	1,870	2,075	1	10
Wisconsin.....	-	9	-	-	12	6	6	-	344	245	-	3
WEST NORTH CENTRAL...	3	140	-	27	30	14	15	1	1,628	1,519	-	27
Minnesota.....	-	9	-	11	5	3	2	-	188	233	-	3
Iowa.....	2	87	-	-	3	1	2	-	249	271	-	4
Missouri.....	-	10	-	1	7	3	4	-	401	534	-	10
North Dakota.....	-	2	-	2	1	1	-	-	59	67	-	2
South Dakota.....	-	16	-	2	3	-	3	-	129	108	-	1
Nebraska.....	-	13	-	4	3	1	1	1	45	101	-	3
Kansas.....	1	3	-	7	8	5	3	-	557	205	-	4
SOUTH ATLANTIC.....	-	33	4	49	65	35	30	-	2,869	3,492	2	68
Delaware.....	-	-	-	-	7	2	5	-	62	67	-	-
Maryland.....	-	-	-	-	9	4	5	-	533	432	-	6
Dist. of Columbia.....	-	-	-	-	6	5	1	-	57	98	-	-
Virginia.....	-	15	-	-	13	7	6	-	452	716	-	11
West Virginia.....	-	-	-	-	6	6	-	-	413	525	-	-
North Carolina.....	-	3	-	-	8	4	4	-	478	866	1	19
South Carolina.....	-	-	-	7	5	2	3	-	109	145	-	11
Georgia.....	-	12	4	25	1	1	-	-	86	151	-	5
Florida.....	-	3	-	17	10	4	6	-	679	492	1	16
EAST SOUTH CENTRAL...	-	17	4	19	24	17	7	-	2,084	3,227	-	31
Kentucky.....	-	6	-	-	2	2	-	-	749	919	-	8
Tennessee.....	-	5	-	2	16	9	7	-	735	1,253	-	15
Alabama.....	-	4	4	12	2	2	-	-	390	514	-	6
Mississippi.....	-	2	-	5	4	4	-	-	210	541	-	2
WEST SOUTH CENTRAL...	2	39	-	30	46	25	19	2	2,378	2,420	4	29
Arkansas.....	-	6	-	-	5	3	2	-	225	273	-	13
Louisiana.....	-	4	-	8	8	2	6	-	581	488	1	5
Oklahoma.....	-	7	-	-	7	7	-	-	117	111	3	7
Texas.....	2	22	-	22	26	13	11	2	1,455	1,548	-	4
MOUNTAIN.....	-	30	-	3	48	13	3	32	1,833	2,201	1	10
Montana.....	-	-	-	-	5	2	2	1	163	287	-	-
Idaho.....	-	-	-	-	7	-	-	7	259	359	-	-
Wyoming.....	-	-	-	-	1	1	-	-	58	27	-	1
Colorado.....	-	-	-	-	14	3	1	10	490	457	-	-
New Mexico.....	-	1	-	1	6	6	-	-	256	259	-	2
Arizona.....	-	2	-	2	14	-	-	14	409	507	1	7
Utah.....	-	26	-	-	1	1	-	-	147	288	-	-
Nevada.....	-	1	-	-	-	-	-	-	51	17	-	-
PACIFIC.....	-	21	-	14	124	77	44	3	5,307	5,348	4	32
Washington.....	-	-	-	13	7	1	6	-	545	928	-	2
Oregon.....	-	2	-	-	7	4	3	-	560	654	-	-
California.....	-	19	-	1	93	61	32	-	3,900	3,586	4	30
Alaska.....	-	-	-	-	17	11	3	3	198	142	-	-
Hawaii.....	-	-	-	-	-	-	-	-	104	38	-	-
Puerto Rico	-	-	1	11	16	11	5	-	787	693	1	12

## Morbidity and Mortality Weekly Report

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
OCTOBER 10, 1964 AND OCTOBER 12, 1963 (41ST WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
		1964	Cumulative		1964	1963	1964	Cum. 1964	1964	Cum. 1964	1964	Cum. 1964
			1964	1963								
UNITED STATES...	800	43	2,135	1,900	5,153	4,610	6	220	2	263	63	3,647
NEW ENGLAND.....	105	3	64	117	338	248	-	9	-	1	1	33
Maine.....	7	1	6	17	22	13	-	-	-	-	1	28
New Hampshire.....	1	-	1	4	-	-	-	-	-	-	-	2
Vermont.....	3	-	4	4	12	1	-	-	-	-	-	2
Massachusetts.....	28	-	24	54	42	44	-	9	-	1	-	1
Rhode Island.....	28	-	10	11	19	14	-	-	-	-	-	1
Connecticut.....	38	2	19	27	243	176	-	-	-	-	-	-
MIDDLE ATLANTIC.....	59	7	279	255	204	153	-	19	-	-	2	108
New York City.....	14	1	37	39	7	8	-	-	-	-	-	-
New York, Up-State..	25	4	79	82	155	85	-	7	-	-	2	102
New Jersey.....	9	-	93	36	20	30	-	6	-	-	-	-
Pennsylvania.....	11	2	70	98	22	30	-	6	-	-	-	6
EAST NORTH CENTRAL...	169	5	299	294	431	341	3	42	-	20	5	520
Ohio.....	18	-	75	79	43	42	1	12	-	1	2	267
Indiana.....	35	2	49	41	71	69	1	10	-	2	-	22
Illinois.....	8	2	77	58	63	49	-	12	-	13	-	97
Michigan.....	68	1	68	87	153	136	1	7	-	1	-	52
Wisconsin.....	40	-	30	29	101	45	-	1	-	3	3	82
WEST NORTH CENTRAL...	15	1	129	119	183	163	1	12	-	52	13	1,118
Minnesota.....	1	-	29	23	4	16	-	1	-	2	3	341
Iowa.....	5	-	7	7	71	35	-	5	-	1	7	404
Missouri.....	3	-	57	34	32	12	1	4	-	26	-	171
North Dakota.....	3	1	19	13	43	25	-	-	-	-	-	55
South Dakota.....	3	-	3	6	17	12	-	1	-	15	1	81
Nebraska.....	-	-	6	25	-	-	-	-	-	-	-	34
Kansas.....	NN	-	8	11	16	63	-	1	-	8	2	32
SOUTH ATLANTIC.....	85	7	429	351	528	567	-	54	1	26	9	502
Delaware.....	-	-	6	4	10	4	-	-	-	-	-	-
Maryland.....	2	1	32	50	84	12	-	3	-	-	-	1
Dist. of Columbia..	-	-	13	6	5	1	-	1	-	1	-	-
Virginia.....	2	1	51	78	69	143	-	7	-	6	4	262
West Virginia.....	71	-	33	19	196	247	-	1	-	-	2	32
North Carolina.....	3	1	73	63	8	15	-	13	1	7	-	5
South Carolina.....	5	2	52	18	35	35	-	4	-	-	-	2
Georgia.....	-	1	63	28	21	3	-	4	-	11	1	109
Florida.....	2	1	106	85	100	107	-	21	-	1	2	91
EAST SOUTH CENTRAL...	71	3	175	137	954	954	-	29	-	30	17	477
Kentucky.....	4	-	56	30	17	117	-	8	-	2	-	55
Tennessee.....	63	1	56	62	932	785	-	11	-	20	8	348
Alabama.....	4	2	39	23	1	19	-	6	-	3	-	17
Mississippi.....	-	-	24	22	4	33	-	4	-	5	9	57
WEST SOUTH CENTRAL...	43	7	195	172	476	516	-	25	1	88	10	506
Arkansas.....	-	-	23	11	1	6	-	7	1	52	4	126
Louisiana.....	2	3	122	70	1	2	-	4	-	5	2	48
Oklahoma.....	-	-	10	31	31	10	-	-	-	19	1	84
Texas.....	41	4	40	60	443	498	-	14	-	12	3	248
MOUNTAIN.....	104	-	73	63	1,131	811	1	6	-	43	1	125
Montana.....	38	-	-	3	59	57	-	-	-	18	-	1
Idaho.....	5	-	3	6	106	84	1	1	-	-	-	-
Wyoming.....	-	-	5	4	25	32	-	2	-	8	-	-
Colorado.....	20	-	12	19	574	266	-	-	-	-	-	8
New Mexico.....	15	-	29	4	61	159	-	1	-	-	-	48
Arizona.....	11	-	7	10	119	85	-	1	-	-	1	55
Utah.....	15	-	7	14	187	128	-	1	-	17	-	2
Nevada.....	-	-	10	3	-	-	-	-	-	-	-	11
PACIFIC.....	149	10	492	392	908	857	1	24	-	3	5	258
Washington.....	48	2	35	31	179	247	-	2	-	-	-	-
Oregon.....	18	-	21	28	8	11	-	-	-	1	-	10
California.....	61	8	417	312	536	369	1	21	-	2	5	248
Alaska.....	5	-	7	12	21	58	-	-	-	-	-	-
Hawaii.....	17	-	12	9	164	172	-	1	-	-	-	-
Puerto Rico	90	-	30	7	10	6	-	59	-	-	-	24

Table 4 (A). TOTAL DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)<sup>o</sup>

Area	For weeks ending				Area	For weeks ending			
	9/19	9/26	10/3	10/10		9/19	9/26	10/3	10/10
<b>NEW ENGLAND:</b>					<b>SOUTH ATLANTIC:</b>				
Boston, Mass. ....	241	195	258	274	Atlanta, Ga. ....	164	108	126	103
Bridgeport, Conn. ....	31	40	33	44	Baltimore, Md. ....	238	249	243	218
Cambridge, Mass. ....	24	30	23	27	Charlotte, N.C. ....	26	33	52	38
Fall River, Mass. ....	15	24	18	27	Jacksonville, Fla. ....	50	66	58	67
Hartford, Conn. ....	57	52	34	66	Miami, Fla. ....	100	73	54	64
Lowell, Mass. ....	16	17	22	24	Norfolk, Va. ....	59	37	53	49
Lynn, Mass. ....	18	17	18	21	Richmond, Va. ....	78	78	71	88
New Bedford, Mass. ....	26	24	20	26	Savannah, Ga. ....	41	38	26	26
New Haven, Conn. ....	49	42	52	49	St. Petersburg, Fla. ....	70	65	59	70
Providence, R.I. ....	64	64	67	59	Tampa, Fla. ....	65	45	79	58
Somerville, Mass. ....	13	9	16	8	Washington, D.C. ....	233	197	155	180
Springfield, Mass. ....	29	44	61	43	Wilmington, Del. ....	41	50	38	48
Waterbury, Conn. ....	27	30	23	21					
Worcester, Mass. ....	59	56	58	57*	<b>EAST SOUTH CENTRAL:</b>				
<b>MIDDLE ATLANTIC:</b>					Birmingham, Ala. ....	116	93	74	94
Albany, N.Y. ....	44	35	54	30	Chattanooga, Tenn. ....	61	30	36	30
Allentown, Pa. ....	24	28	30	34	Knoxville, Tenn. ....	46	28	32	19
Buffalo, N.Y. ....	141	140	132	143*	Louisville, Ky. ....	133	137	112	80
Camden, N.J. ....	47	34	37	48	Memphis, Tenn. ....	161	133	128	113
Elizabeth, N.J. ....	24	32	22	37	Mobile, Ala. ....	38	39	56	43
Erie, Pa. ....	37	26	42	35	Montgomery, Ala. ....	38	20	39	29
Jersey City, N.J. ....	57	61	75	59	Nashville, Tenn. ....	115	95	104	104
Newark, N.J. ....	96	96	69	115	<b>WEST SOUTH CENTRAL:</b>				
New York City, N.Y. ....	1,502	1,587	1,471	1,723	Austin, Tex. ....	36	43	25	23
Paterson, N.J. ....	35	34	39	41	Baton Rouge, La. ....	34	15	30	28
Philadelphia, Pa. ....	403	497	435	487	Corpus Christi, Tex. ....	22	43	22	24
Pittsburgh, Pa. ....	217	191	175	185	Dallas, Tex. ....	138	118	128	121
Reading, Pa. ....	32	44	50	50	El Paso, Tex. ....	34	39	25	31
Rochester, N.Y. ....	96	111	89	109	Fort Worth, Tex. ....	53	74	75	77
Schenectady, N.Y. ....	25	22	20	28	Houston, Tex. ....	199	196	192	202
Scranton, Pa. ....	28	25	28	38	Little Rock, Ark. ....	59	74	59	60
Syracuse, N.Y. ....	71	53	52	66	New Orleans, La. ....	183	157	170	188
Trenton, N.J. ....	44	35	51	34	Oklahoma City, Okla. ....	81	85	63	84
Utica, N.Y. ....	23	19	36	33	San Antonio, Tex. ....	107	102	111	89
Yonkers, N.Y. ....	38	22	29	33	Shreveport, La. ....	33	51	46	51
<b>EAST NORTH CENTRAL:</b>					Tulsa, Okla. ....	50	44	66	30
Akron, Ohio. ....	66	58	52	78	<b>MOUNTAIN:</b>				
Canton, Ohio. ....	30	40	25	30	Albuquerque, N. Mex. ....	29	28	32	33
Chicago, Ill. ....	682	700	688	718	Colorado Springs, Colo. ...	28	19	30	19
Cincinnati, Ohio. ....	178	176	152	149	Denver, Colo. ....	115	114	115	111
Cleveland, Ohio. ....	197	204	206	190	Ogden, Utah. ....	15	20	9	12
Columbus, Ohio. ....	106	114	99	116	Phoenix, Ariz. ....	76	84	78	86
Dayton, Ohio. ....	62	94	78	81	Pueblo, Colo. ....	7	15	13	14
Detroit, Mich. ....	366	332	359	353	Salt Lake City, Utah. ....	51	58	45	50
Evansville, Ind. ....	35	45	43	38	Tucson, Ariz. ....	43	57	44	46
Flint, Mich. ....	33	43	48	50	<b>PACIFIC:</b>				
Fort Wayne, Ind. ....	33	41	39	31	Berkeley, Calif. ....	24	18	22	15
Gary, Ind. ....	20	40	14	31	Fresno, Calif. ....	56	47	47	53
Grand Rapids, Mich. ....	47	39	48	54	Glendale, Calif. ....	48	33	32	37
Indianapolis, Ind. ....	172	135	144	145	Honolulu, Hawaii. ....	30	31	30	34
Madison, Wis. ....	26	36	13	37	Long Beach, Calif. ....	48	57	56	61
Milwaukee, Wis. ....	121	110	123	116	Los Angeles, Calif. ....	559	484	521	463
Peoria, Ill. ....	27	32	20	26	Oakland, Calif. ....	37	108	129	32
Rockford, Ill. ....	39	20	22	24	Pasadena, Calif. ....	34	23	29	37
South Bend, Ind. ....	40	41	31	22	Portland, Oreg. ....	99	116	100	90
Toledo, Ohio. ....	108	97	96	97	Sacramento, Calif. ....	67	70	63	69
Youngstown, Ohio. ....	70	56	47	48	San Diego, Calif. ....	74	97	91	98
<b>WEST NORTH CENTRAL:</b>					San Francisco, Calif. ....	225	196	190	181
Des Moines, Iowa. ....	75	51	70	53	San Jose, Calif. ....	40	40	45	41
Duluth, Minn. ....	13	34	13	22	Seattle, Wash. ....	118	104	145	153
Kansas City, Kans. ....	34	38	41	43	Spokane, Wash. ....	45	62	44	53
Kansas City, Mo. ....	126	148	108	151	Tacoma, Wash. ....	37	39	43	42
Lincoln, Nebr. ....	30	28	39	21					
Minneapolis, Minn. ....	114	118	113	108					
Omaha, Nebr. ....	70	60	54	69					
St. Louis, Mo. ....	196	222	221	235					
St. Paul, Minn. ....	60	72	87	57					
Wichita, Kans. ....	62	57	36	39					

\*Estimate - based on average percent of divisional total.  
Totals for previous weeks include reported corrections.

<sup>o</sup>Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages. .... 11,102  
4(B) Pneumonia-Influenza Deaths, all ages. .... 419  
4(C) Total Deaths under 1 Year of Age. .... 708  
4(D) Total Deaths, Persons 65 years and over. .... 6,123

NOTE: All deaths by place of occurrence.

INTERNATIONAL NOTES – QUARANTINE MEASURES

(Continued from page 367)

Guernsey, Alderney, and Sark, page 58

Delete previous information under smallpox and cholera and insert: No certificate normally required.

Liechtenstein, page 60

Smallpox vaccination is required for arrivals from infected areas and from all countries in Africa (except Algeria, Libya, Morocco, Tunisia, United Arab Republic,) in America (except Canada, the United States of America) and Asia (except Israel, Jordan, Lebanon, Syria, Turkey.)

Luxembourg, page 60

Under smallpox add: "And from all countries in Africa, Asia and America (except Canada and the United States of America.)"

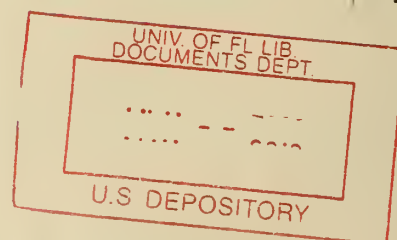
Netherlands, page 60

Under smallpox add: "And from all countries in Africa, Asia and America (except Canada and the United States of America.)"

Switzerland, page 62

Smallpox vaccination is required for arrivals from infected areas and from all countries in Africa (except Algeria, Libya, Morocco, Tunisia, United Arab Republic,) in America (except Canada, the United States of America) and Asia (except Israel, Jordan, Lebanon, Syria, Turkey.)

U. S. DEPARTMENT OF  
 HEALTH, EDUCATION, AND WELFARE  
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 Communicable Disease Center  
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THE EDITOR  
 MORBIDITY AND MORTALITY WEEKLY REPORT  
 COMMUNICABLE DISEASE CENTER  
 ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS:---DATA NOT AVAILABLE  
 - QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

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